AWX CLI

1- Setup the CLI

We need to install the AWX CLI is through pip directly from PyPI:

```
pip3 install awxkit
awx --help
```

In order to authenticate to the awx cli, use the following commands:

```
export TOWER_HOST=http://51.254.116.97:8052/

$(TOWER_USERNAME=admin TOWER_PASSWORD=password awx login -f human)

awx config
```

Next, l'et's create a new organization for the la, name it "vbs":

```
$ awx organization create --name "vbs" --mas_hosts 100
```

Remember how you used the awx help to get down to the needed command.

2- Create an Inventory

The first step is to create a static inventory; dynamic inventories will be covered later. Using the awx command, create an inventory named "Example Inventory". You can work with multiple organizations in Tower. In this lab we'll work in the **VBS** organization.

```
$ awx -f human inventory create --name "Example" --organization "vbs"
```

3- Add Hosts to the Inventory using awx

Now that we have the empty inventory created, add your two managed hosts using their internal hostnames node1 and node2, again using awx.

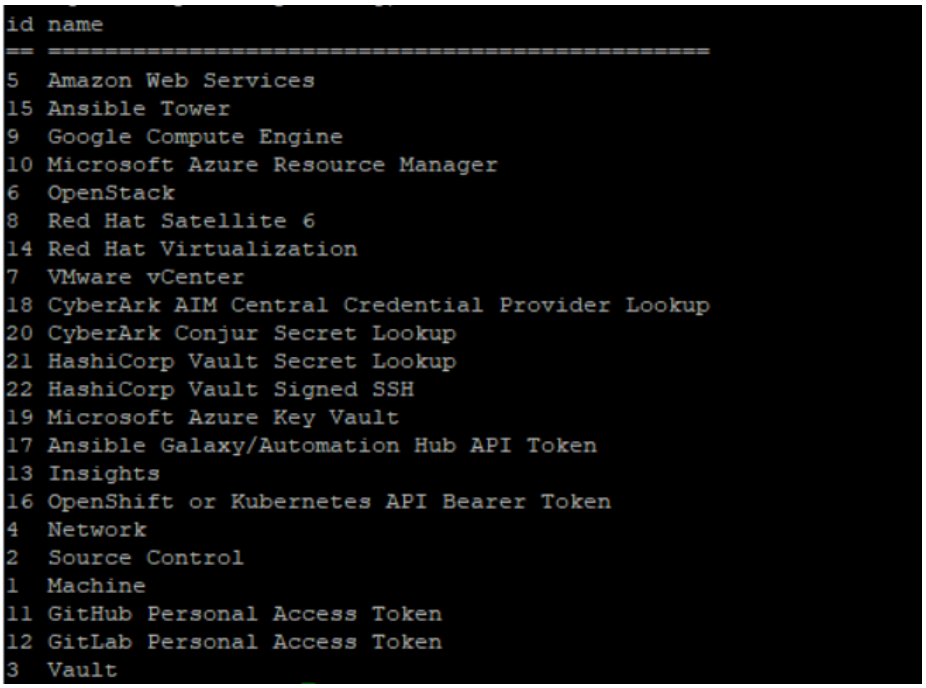
```
$ awx -f human host create --name "node1" --inventory "Example"

$ awx -f human host create --name "node2" --inventory "Example"
```

4- Create Machine Credentials

SSH keys have already been created and distributed in your lab environment having password-less login. We want to configure these credentials to access our managed hosts from AWX.

First we need to look for the Id of the credentials type “Machine” using this request:

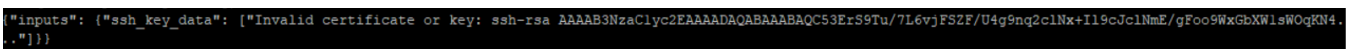
```
$ awx -f human credential_types list
```



Then issue the following command to create the new machine credentials:

```
$ awx -f human credential create --name "Example Credentials" \
    --organization "vbs" \
    --credential_type 1 \
 --inputs '{"username": "labadm", "ssh_key_data": "@~/.ssh/id_rsa"}'
```

You have to ensure that you are passing a valid ssh private key in your inputs, otherwise you will face a key validation error like this:



5- Create the Project

The Ansible content used in this lab is hosted on Github. The next step is to add a project to import the playbooks:

```
$ awx -f human project create --name="Apache" \
    --scm_type=git \
    --scm_url="https://github.com/ghazelatech/ansible-labs-playbooks.git" \
    --organization "vbs" \
    --scm_clean=true \
    --scm_delete_on_update=true  \
    --scm_update_on_launch=true \
    --wait
```

6- Create a Job Template

Before running an Ansible Job from your AWX instance you must create a Job Template. Here AWX CLI will work on the resource **job_template**:

```
$ awx -f human job_templates create  \
    --name="Install Apache" \
    --inventory="Example" \
    --project=Apache \
    --playbook=apache_install.yml \
    --become_enabled="yes"
```

7- Attach Credentials to Job Template

Finally we need to attach the credentials we created above to the Job Template.

We need first to retrieve the credential Id using this command:

```
$ awx -f human credentials list --query "{id: id, name: name}"
```

```
id name
== ==============
14 Install Apache
7  test
```

```
$ awx -f human job_templates list --query "{id: id, name: name}"
```

```
id name
== =================
3  22cred
4  22cred
1  cred
2  Example Credentials
```

Then we could associate the credential to the job template like below:

```
$ awx job_template associate --credential 2 --job-template 14
```